

USSN CPA  
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Deleted Claim 4

Version Showing Changes

--4. Test kits for enabling BRCA1 gene testing comprising the primers pairs listed in Table 4 under "PRIMER SEQUENCES" column, mixed in about 20mM of Tris-HCl, 50mM KCl, 25pM of dNTP and 5% formamide. -

Clean Copy of Claim 4

-- 4. (Amended) Test kits for enabling BRCA1 gene testing comprising the primer pairs listed in Table 4 under "PRIMER SEQUENCES" column, mixed in about 20mM of Tris-HCl, 50mMKCl, 25pM of dNTP and 5% formamide.--

Deleted Claim 10

--10. (Amended) A method for detecting mutations in BRA1 genes comprising providing PCR primers capable of amplifying the entire coding sequence of the BRCA1 genes; amplifying a test sample containing nucleotide sequences by long distance multiplex PCR with primers as listed in Table 2, producing a first set of amplification products; subjecting this first set of amplification products to short distance multiplex PCR to produce a second set of amplification products, using the primer pairs of Table 4 listed under the "PRIMER SEQUENCES" column with clamping and linking sequences listed under the "CLAMPING SEQUENCES" column of Table 4, for effecting this short distance PCR; and subjecting the second set of amplification products to two dimensional gel electrophoresis to produce a characteristic spot pattern for a specific mutation in the BRCA1 gene.

Version Showing Changes

--11. The method of claim 10 where non-detecting gels and buffer materials are used so as to enable combined mixtures of multiple groups of BRCA1 and hMLH1 genes to be subjected to the electrophoresis together.—

Clean Version Claim 11

11. The method of claim 10 where non-detecting gels and buffer materials are used so as to enable combined mixtures of multiple groups of BRCA1 genes to be subjected to the electrophoresis together.--